MAN 1 1 200 S MAN 1 1 200 S Attorney's Docket No. 74451.P103

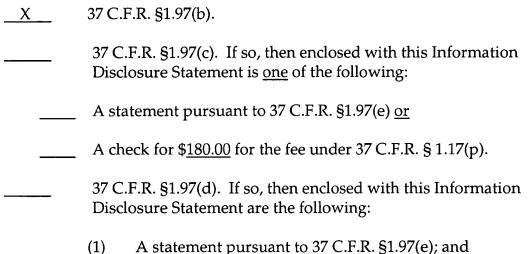
GAN 2721 2621 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE UNITED STATES PATE	ENT AND TRADEMARK OFFICE
In Re Patent Application of:	ENT AND TRADEMARK OFFICE Composition of the comp
Kathrin Berkner	Examiner: Not yet assigned
Application No.: 09/467,544 •) Art Unit: 2721
Filed: December 10, 1999.))
For: MULTISCALE SHARPENING AND SMOOTHING WITH WAVELETS) <u>S</u>)
Assistant Commissioner for Patents Washington, D.C. 20231	
<u>INFORMATION DISC</u> Sir:	CLOSURE STATEMENT
Enclosed is a copy of Information	Disclosure Citation Form PTO-1449
together with copies of the documents c	ited on that form. It is respectfully
requested that the cited documents be co	onsidered and that the enclosed copy of
Information Disclosure Citation Form P	TO-1449 be initialed by the Examiner to
indicate such consideration and a copy t	thereof returned to applicant(s).
I hereby certify that this correspondence is being deposited with the postage in an envelope addressed to the Assistant Commissioner to	the United States Postal Service as first class mail with sufficient for Patents, Washington, D. C. 20231 on
Mara E. Brown	of Deposit)
(Typed or printed name of person mailing corresponden	ce)
(Signature of person mailing correspondence)	

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):



- A statement pursuant to 37 C.F.R. §1.97(e); and
- (2) A check for \$180.00 for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.



Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LERenge Topo If there are any additional charges, please charge Deposit Account No. 02-

Michael J. Mallie Reg. No. 36,591

12400 Wilshire Blvd. Seventh Floor Los Angeles, CA 90025-1026 (408) 720-8300

Please	type a	a plus	sian (+	+) inside	this	box		Ш	
licase	type c	a pius	Sign (r) irisido	11113	DOX_	→		l

(ICIP '97), pp. 326-329, 1997.

PTO/SB/08A (10-96) Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

+

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitu	Substitute for form 1449A/PTO					Complete if Known				
		BSTZ 6/30/99			Ap	plication Number	09/467,544			
11	NFO	RMATION D	OISCL	SURFAY 1 4 2001	सु Fill	ing Date	12/10/1999		^	
		TEMENT BY		120 0	Fire	st Named Inventor	Berkner		1 1/2	
(us	e as	many sheet	's as n	ecessary RADEMARY	Gr	oup Art Unit	2721	OCA,	The co	0
						xaminer Name	Not yet assign	ed %	7	1/2
Sheet		1	of	9	At	torney Docket Number	74451.P103		TRO TO	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>
				U.S	. PATE	ENT DOCUMENTS			Č,	
Examiner Initials *		U.S.Patent Do		t Name		ntee or Applicant Document	Date of Publicat Cited Docum MM-DD-YY	ent	Filing Dete i	f Appropriate
		5,717,7	789	Anderson et a	l		2/10/199	8	-	
		5,883,9	973	Pascovici et a			3/16/199	9	<u>-</u> .	
		5,805,7	721	Vuylsteke et a	l.		9/8/1998	3		
		5,867,6	306	Tretter			2/2/1999	9		
				FORE	IGN PA	ATENT DOCUMENTS				
Examiner Initials *		Foreign Patent Document				Name of Patentee or Ap		Date of P Cited I	ublication of Document	Translation? Yes/No
IIIIIais		Office or Coun	itry	Number	Date	of Cited Documen	MM		D-YYYY	163/140
	-								<u> </u>	
			<u> </u>					ļ 		
			-							
			L							
<u> </u>	Γ	Include nam	ne of th			DOCUMENTS RS), title of the article (when a	annronriate) title o	of the item	(book	<u> </u>
Examiner Initials *				serial, symposium, ca	italog, et	tc.), date, page(s), volume-issi here published (if known).				Translation? Yes/No
	×	ABRAMOV	ICH, F	., Silverman, B.W.	"Wave	elet Decomposition Approac	ches to Statistica	al Invers	e	
		Problems,"	Biome	trika, vol. 85, pp. 1	15-129,	, 1998.				
	*	BHAKARAN	√., €	et al., "Text and Ima	ige Sha	arpening of Scanned Image	98			
		in the JPEG	Dom	ain," Proceedings o	of the 19	997 International Conference	ce on Image Pro	cessing		

Examiner Signature Date Considered

Please type a plus sign (+) inside this box	П		ı
riease type a plus sign (+) inside this box	ч	=	ı

PTO/SB/08A (10-96) Approved for use through 10/31/99. OMB 0651-0031

Approved for use through 10/31/99. OMB 0651-0031 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

1 ---

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449A/PTO (Modified by BSTZ 6/30/99) 09/467,544 **Application Number** INFORMATION DISCLOSURE Filing Date 12/10/1999 STATEMENT BY APPLIC Berkner **First Named Inventor** (use as many sheets as neces) Group Art Unit 2721 **Examiner Name** Not yet assigned Sheet 2 of 9 Attorney Docket Number 74451.P103 **U.S. PATENT DOCUMENTS** Date of Publication of **U.S.Patent Document** Examiner Name of Patentee or Applicant Cited Document Initials Number of Cited Document MM-DD-YYYY FÖREIGN PATENT DOCUMENTS Date of Publication of Translation? Foreign Patent Document Examiner Name of Patentee or Applicant Cited Document Initials of Cited Document Yes/No Office or Country Number Date MM-DD-YYYY OTHER DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, Examiner Translation? magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or Initials Yes/No country where published (if known). DONOHO, D.L., "Nonlinear solution of linear inverse problems by wavelet-vaguelett decomposition," J. of Appl. and Comp. Harm. Anal, vol. 2, pp. 101-115, 1995. MALLAT, S., A Wavelet Tour of Signal Processing. Academic Press, 1998. ₩NEELAMANI, R., Choi, H., Baraniuk, R., "Wavelet-based Deconvolution for Ill-conditioned Systems," in Proceedings of ICASSP, vol. 6, pp. 3241-3244, 1998. Date Examiner Signature Considered

Please type a plus sign (+) inside this box	_	L	
---------------------------------------------	---	---	--

Patent and

PTO/SB/08A (10-96)	
Approved for use through 10/31/99. OMB 0651-0031	_
Trademark Office: U.S. DEPARTMENT OF COMMERCE	
of information unlose it contains a valid OMR control number	. '

Inder the Pa	aperv	vork Reduction	Act of 1	1995, r	no persons a	re requir	ed to resp	ond to a collection of informa		s a valid OMB cont	rol number.	
		or form 1449A			01	A	Complete if Known					
(Modifie	ed by	/ BSTZ 6/30/9	9)	/		4/	Application Number 09		09/467,544			
11	NFO	RMATION D	DISCL	.ဝန္မမှ	REAY 1 A	200.	Filing	Date	12/10/1999			
		TEMENT BY		\3	5	<i>200</i> 1 ଧ	First I	Named Inventor	Berkner			
us (us	e as	s many shee	ts as i	necè	RADEMAR	" OFFICE	Grou	p Art Unit	2721			
					OEMAN		Exan	Examiner Name Not yet assigned				
Sheet		3	of		9		Attor	ney Docket Number	74451.P103			
					a	U.S.	PATENT	T DOCUMENTS				
Examiner Initials *		U.S.Patent D Number		nt			f Patentee Cited Doo	or Applicant cument	Date of Publica Cited Docum MM-DD-YY	tion of hent	A Appropriate	
	-								 	70/	70 (%)	
				\dashv					 	Oy		
				\dashv							en or	
									<u> </u>		300	
 				\dashv								
				\dashv								
				_								
 									†			
				+								
<u></u>						ODEIG	NI DAT	ENT DOOLUENTO				
Examiner		For	eign Pa	atent C	Document	UKEIG	an PATI	ENT DOCUMENTS Name of Patentee or A	nnlicant	Date of Publication	n of Translation?	
Initials *		Office or Cour	ntry		Number		Date	of Cited Docume		Cited Document		
						ОТ	HER DO	OCUMENTS				
Examiner Initials *						PITAL L m, cata	ETTERS log, etc.)), title of the article (when , date, page(s), volume-is re published (if known).				
	+	POLESEL,	A., et	al., "	"Adaptive	unshar	p maskii	ng for contrast enhance	ement,"			
		in Proceedi					·					
	\ \	ZONG, X.,	Laine	, A.F.	., Geiser, I	E.A., W	ilson, D	.C., "De-Noising and co	ontrast enhancer	nent via		
		wavelet shr	inkag	e and	d nonlinea	r adapt	ive gain	," Proceedings of the S	PIE, vol. 2762,			
		pp. 566-57	4, Orla	ando,	, FL, 1996							
												

Date Considered Examiner Signature

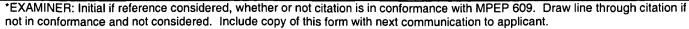
Please type a p	olus sign (+) inside	this box	Ц	Ц

PTO/SB/08A (10-96) Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Inder the P	apen	work Reduction	Act of 199	95, no persons are re	quired to res	pond to a collection of informat		s a valid OMB control	number.
		or form 1449A		IPE		Con	plete if Known		
(Modifi	ied b	y BSTZ 6/30/9	9)	01, - 6	Appl	ication Number	09/467,544		
l.	NFC	RMATION D	ISCLO	OURF ~~~	ਮੂ Filin	g Date	12/10/1999		
	STA	TEMENT BY	APPLI	CANTAN 1	First	Named Inventor	Berkner		
(us	se as	s many sheet	ts as ne	COSSATY)	Gro	up Art Unit	2721		· ·
				& TRADES	Exa	miner Name	Not yet assign	ed	
Sheet		4	of	9	Atto	rney Docket Number	74451.P103		
				U.	S. PATEN	IT DOCUMENTS			
Examiner Initials *		U.S.Patent De	•	- Nam	ne of Patente of Cited Do	e or Applicant ocument	Date of Publica Cited Docum MM-DD-YY	ent Filing Date	if Appropriate
	<u> </u>								_
	<u> </u>						 	To May	\\
	-							1/10/1	, '
				_				4 Co. S	<i>Q</i>
								"Ner e	<u>, </u>
				<u> </u>	-				00
	<u> </u>								
	ļ							ļ	
	ļ								
					EIGN PAT	ENT DOCUMENTS			
Examiner Initials *				nt Document	D-1-	Name of Patentee or Applicant Oited Document Oited Document			Translation? Yes/No
		Office or Coun	itry	Number	Date	or cited bocument		MM-DD-YYYY	100/110
ļ	-								
									ļ
l				<u> </u>					<u> </u>
<u></u>	-								
				l		<u> </u>		1	
						OCUMENTS	_		
Examiner Initials *				erial, symposium, c	atalog, etc.	S), title of the article (when a), date, page(s), volume-issi ere published (if known).			Translation? Yes/No
	+	ANDREWS, H	.C., Hunt	, B.R., Digital Image F	Restoration.	Prentice-Hall, Inc. Englewood	Cliffs, New Jersey, 1	977.	
	$ \uparrow $	BERKNER,	K., We	lls Jr, R.O., "Smo	othness e	estimates for soft-thresho	ld denoising via	translation	
	-	invariant wa	velet tr	ansforms," Tech	. Rep. CM	L TR98-01, Rice Univers	ity, 1998.		1
	1	COIFMAN,	R.R., D	onoho, D.L., "Tra	ınslation ir	nvariant denoising," in Wa	avelets and Stat	istics,	

Examiner Signature	Date Considered	
	 <u> </u>	<u></u>

Springer Lecture Notes (A. Antoniades, ed.), Springer-Verlag, 1995.



Please typ	e a plus	sign (+) inside	this box	\rightarrow	H	4

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Inder the Pap	erwork Reduction A	Act of 1995,	no persons are requir	ed to respond to a collection of informa	ation unless it contains a valid	OMB control number.		
Substitute	e for form 1449A	PTO	OF IS	Complete if Known				
	by BSTZ 6/30/99		TP E VOZ	Application Number	09/467,544			
	FORMATION D			Filing Date	12/10/1999			
ST	TATEMENT BY	APPLICA	MY , El	First Named Inventor	Berkner			
(use	as many sheet	s as nece	ssary) FENT & TRADEMART	Group Art Unit	2721			
			& TRADE	Examiner Name	Not yet assigned			
Sheet	5	of	9	Attorney Docket Number	74451.P103			
			U.S. I	PATENT DOCUMENTS				
Examiner Initials *	U.S.Patent Document Namber			f Patentee or Applicant	Date of Publication of Cited Document	Filing Date if Appropriate		

		U.S. PATENT DOCUMENTS	,	
Examiner	U.S.Patent Document	Name of Patentee or Applicant	Date of Publication of Cited Document	Filing Date if Appropriate
Initials *	Number	of Cited Document	MM-DD-YYYY	\ \sigma_{\sigma}
			•	1 10
			R _{Chn}	TAL CI
			70	
				TC TO
				Mer of
				ALCONE, SON

		FO	REIGN PATE	ENT DOCUMENTS				
Examiner	Foreign P	atent Document		Name of Patentee or Applicant	Date of Publication of Translatio			
Initials *	Office or Country	Number	Date	of Cited Document	Cited Document MM-DD-YYYY	Yes/No		
						,		

		OTHER DOCUMENTS			
Examiner Initials *	-1 = 1 + 2 + 2 + 2 + 2 + 3 + 3 + 4 + 3 + 4 + 4 + 4 + 4 + 4 + 4				
	~	DONOHO, D.L., "De-noising by soft-thresholding," IEEE Transactions on Information Theory,			
		vol. 41, no.3, pp. 613-627, 1995.	,		
	/	JAIN, A.K., Fundamentals of digital image processing. Prentice Hall, Englewood Cliffs, NJ, 1989.			
	_	KINGSBURY, N., "The dual-tree complex wavelet transform: a new efficient tool for image			
		restoration and enhancement," in Proc. European Signal Processing Conf., pp. 319-322, 1998.			

Examiner	Date	
Signature	Considered	
	<u> </u>	



Please type a plus sign (+) inside this box	Ц	Ц	

PTO/SB/08A (10-96) Approved for use through 10/31/99. OMB 0651-0031

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

+

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

_						23porta to a concentration into	Complete if Kn			
		or form 1449A/ y BSTZ 6/30/99		OIPE	VO An	plication Number	09/467,5 ⁴			
		RMATION D	-	SURE 1 10	- نسلاه	ng Date	12/10/199			
1 .		TELEBLE 01/	ABBLIA	olasimasy 7 " ==		st Named Inventor	Berkner			
(us	se a	s many sheet	s as ne	CONTINATORY) COSTANTAL	Gr Gr	oup Art Unit	2721			
				TRADEM	F)	aminer Name	Not yet as	ssigned		
Sheet		6	of I	9		torney Docket Number	74451.P1			
						NT DOCUMENTS			<u> </u>	
Examiner Initials *	caminer U.S.Patent Document Name			me of Paten	tee or Applicant	Cited [ublication of Document	Fling Date	if Appropriate	
			•	+			IVIIVI-D		90 7	7
 									6	2 2
									1 1/8	
										300
				1						
	-									
										-
										
<u> </u>	_			FOE	EIGN P/	TENT DOCUMENTS			<u> </u>	
Examiner		Foreign Patent Document				Name of Patentee of	r Applicant	Date of	Publication of	Translation?
Initials *		Office or Coun	try	Number	Date	of Cited Docu	ment			Yes/No
					<u> </u>					
					<u> </u>					
								<u> </u>		
						DOCUMENTS				
Examiner Initials *		Include nam magazine, joi	e of the a urnal, se	rial, symposium, o	catalog, etc	RS), title of the article (wh c.), date, page(s), volume nere published (if known).	en appropriate), -issue number(s	title of the iter), publisher, c	n (book, ity and/or	Translation? Yes/No
	,	LANG, M., 0	Guo, H.,	Odegard, J.E.,	Burrus, (C.S., Wells Jr, R.O., "N	oise reduction	using an un-		
		decimated d	iscrete	wavelet transfor	rm," IEEI	E Signal Processing Le	tters, vol. 3, pp	o. 10-12, 199	6.	
	_	PRATT, W.,	Digital	lmage Processi	ng, John	Wiley & Sons, NY, 197	'8.			
	×	ABRAMOVI	CH, F.,	Sapatinas, T., S	Silverman	, B.W., "Wavelet Thres	holding via a E	Bayesian	· 	
		Approach,"	J. Roya	Statist. Soc. Se	er. B, vol	60, pp. 725-749, 1998.		_		
Examine				 			Date			$\overline{}$

Please type a plus sign (+) inside this box		$oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}$	ı
, rease type a place sign (1) menae and sen	1	_	ı

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
nd Trademark Office: U.S. DEPARTMENT OF COMMERCE
n of information unless it contains a valid OMB control number.

Inder the P	aperv	vork Reduction Act o	1995	, no persons are re	equired to r	espond to a collection of info		K Office: U.S. DEPA on unless it contain			
Substit	ute f	or form 1449A/PT)	NPE	20		Com	plete if Known			
(Modifi	ed by	y BSTZ 6/30/99)			Ap	plication Number		09/467,544			
l!	NFC	RMATION DISC	LOS	URE L'	m E	ing Date		12/10/1999			
	STA	TEMENT BY AP	PLIC	ANT MAI	SFire	st Named Inventor		Berkner			
(us	se as	s many sheets as	nec	essam)	EMP GI	oup Art Unit		2721			
				Q TRAU	E	xaminer Name		Not yet assign	ed		
Sheet		7 0	f	9	At	torney Docket Number	r	74451.P103			
				 ū	S. PATE	ENT DOCUMENTS					
Examiner Initials *		U.S.Patent Docum Number	ent		ne of Pate	ntee or Applicant Document		Date of Publicat Cited Docum MM-DD-YY	ent		f Appropriate
									EC.	By.	<u> </u>
					-						1
										92 8	
										STATE OF	0,
	_									MAY 7 SOUTH TO THE TO THE	
<u>.</u>					-					2	
								<u> </u>			
		Coroina	Patant		REIGN P	ATENT DOCUMENTS			IData of E	hiblioation of	
Examiner Initials *		Office or Country	atent	Document Number	Date	Name of Patentee of Cited Doc		Cited I		Document	Translation? Yes/No
	Н	Omos or Godinay	1		T Dutte				MM-L	D-YYYY	
<u> </u>			+								
l											
			1								
			T					-			
					OTLED	DOCUMENTS		· · · · · · · · · · · · · · · · · · ·			<u> </u>
Examiner Initials *				ial, symposium,	AL LETTE catalog, e	RS), title of the article (whatc.), date, page(s), volume where published (if known)	e-issı				Translation? Yes/No
<u> </u>	▙										-
		DEVORE, R.A.	Jaw	erth, B., Lucie	r, B.J., "lı	mage compression thro	ough ——	wavelet transfo	rm codi	ng," 	
	-			<u> </u>		. 2, pp. 719-746, 1992.					
	<u> </u>	DONOHO, D.L.	, Joh	nstone, I.M., "A	Adaption	to unknown smoothnes	ss vi	a wavelet shrink	age,"		
		J. American S	atist.	Assoc., pp. 12	200-1224	, 1995. 					
											I

Examiner Signature Date Considered

Please ty	pe a plu	s sian	(+)	inside	this	box	_		ı
i iouoo iy	PC & P.G	J 0.g	٠.,			-U-N			

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

				995, no persons are	requi	red to resp	ond to a collection of infor			s a valid C)MB control n	iumber.
		or form 1449 A y BSTZ 6/30/9		OIA	120	<u> </u>		Complete if k				-
-	•		•	/	5 4	4	cation Number	09/467				
)) !	NHU Sta	RMATION L	DISCLU V APPI	OSURE LICENT ^{MAY 1 4} ;	2001	#	g Date	12/10/1				
						*/	Named Inventor	Berkne	<u>r</u>			
(US	ie as	s many shee	NS as 11	TRADEMAR	, KOFF)	Grou	p Art Unit	2721				
				- OUE MAT	<u> </u>	Exan	miner Name	Not yet	assign	ned		
Sheet		8	of	9		Attor	ney Docket Number	74451.	P103	-		
					U.S.	PATENT	T DOCUMENTS	T Date o	7 D. Iblion	1' 06		
Examiner Initials *		U.S.Patent D		t N		of Patentee f Cited Doc	or Applicant cument	Cite	f Publica d Docum 1-DD-YY	nent YY	Filing Date in Royal Control of the	if Appropriate
	<u>_</u>										Ch Y	F 1
	<u> </u>										100	* 6 S
	<u> </u> '						·				- 4	en 10,
	<u> </u>										 	'&\
	<u> </u>										 	-6
	<u> </u>										 	
	<u> </u>											
	<u> </u>											
	<u> </u>											
											<u></u>	
					REI	<u> GN PATI</u>	ENT DOCUMENTS			1		
Examiner Initials *				tent Document		Date	Name of Patentee o			Cited	Publication of Document	Translation? Yes/No
	$\vdash\vdash$	Office or Cour			Number I					MM-I	DD-YYYY-DC	
	$\vdash\vdash$				+					 		
	\vdash		+		+							
	igwdapprox		\dashv		+				<u> </u>			
	H		\dashv		+					ļ <u> </u>		
	닏				<u> </u>					<u> </u>		
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-(4)-	** (% CAD			OCUMENTS		\ 4141 a	/ III a liana	/l l-	Т
Examiner Initials *					n, cata	alog, etc.),), title of the article (who, date, page(s), volume re published (if known).	-issue numbe				Translation? Yes/No
	_	DONOHO,	D.L., \	√etterli, M., DeB	ore,	R.A., Da	ubechies, I., "Data co	ompression	and ha	rmonic		
		analysis,"	IEEE T	ransactions on	Inforr	mation T	heory, vol. 44, no. 6,	pp. 2435-24	176, 19	98.		
	_	LEVY VEH	EL, J.,	Guiheneuf, B.,	"2-mi	crolocal	analysis and applica	tions in sign	al proc	essing" i	n	
	\vdash	-					nce, Tanger, Morocco		-			
Examine	L or T							Date				
Signatur								Considered				

Please type a	ı plus sign	(+) inside	this box	آ ج	4	\Box

Approved

PTO/SB/08A (10-96)	
for use through 10/31/99. OMB 0651-0031	
ffice: U.S. DEPARTMENT OF COMMERCE	

Inder the Pa	aperv	vork Reduct	ion Act of	1995, r	o persons are re	quired to resp	ond to a collection of informa	tion unless it contain					
Substitute for form 1449A/PTO				Complete if Known									
(Modified by BSTZ 6/30/99)					SIPE	Appli	cation Number	09/467,544 12/10/1999					
INFORMATION DISCLOSURE				RE S	Filing	Date							
STATEMENT BY APPLICANT			First I	Named Inventor	Berkner								
(us	(use as many sheets as necessary)			Grou	p Art Unit	2721							
	(use as many sheets as necessary) Sheet 9 of 9					Exar	niner Name	Not yet assigned					
Sheet		9 of 9				Attor	ney Docket Number	74451.P103					
					Ü.	S. PATEN	T DOCUMENTS			*			
Examiner Initials *		U.S.Patent Document Number			Nam	ne of Patentee of Cited Doo		Date of Publication of Cited Document MM-DD-YYYY		Filing Date i	f Appropriate		
									Reg.	1/2,	₹		
									7/		1		
										34 C	S Co		
							Eng	0,					
							~~ ~~	h					
						,	Filing Date if Appropriate						
					FOR	EIGN PAT	ENT DOCUMENTS						
Examiner		Foreign Patent Document					Name of Patentee or A		Translation?				
Initials *		Office or Country			Number Date		of Cited Docume			Document DD-YYYY	Yes/No		
	\square			ļ					ļ				
				<u> </u>									
				 									

	OTHER DOCUMENTS	····						
Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published (if known).							
	MUNOZ, A., Blu T., Unser, M., "Non-Euclidean Pyramids," in Proceedings of SPIE Conference,							
	San Diego, vol. 4119, pp. 710-720, 2000.							

Examiner				Date			
Signature				Considered			
	<u> </u>	 	 	 1	<u> </u>	 	

